2661

•								
Under the	Pa perwork R	teduction Act of 1995	no person	, U.S. Pater s are required to respond to a collection	t and Tr	ademark Offi	ce; U.S. [rgh 07/31/2006. OMB 0651-0031 DEPARTMENT OF COMMERCE
011	PE			Application Number	T	80,140	<u> </u>	
TRANSMITTAL			Filing Date	February 21, 2002				
FEB 0 9 2006 PORM			First Named Inventor	De et al.				
to be used for all consuppondence after initial filing)			Art Unit	2661				
MABE	MARK OFFI	~		Examiner Name	Robert W. Wilson			.,,
Total Number of Pages in This Submission			Attorney Docket Number	I-2-0173.4US				
	-		ENC	LOSURES (Check all that	anniv			
Fee Tr	ansmittal F	orm		Drawing(s)		Afr to	Technol	rance communication ogy Center (TC)
	Fee Attached		Licensing-related Papers		of لــا	Appeal Communication to Board of Appeals and Interferences Appeal Communication to TC		
Zanenamentricepi)			Petition Petition to Convert to a				tice, Brief, Reply Brief)	
	After Final			Provisional Application		Pr	oprietary	/ Information
Affidavits/declaration(s)				Power of Attorney, Revocation Change of Correspondence Address Status Letter			er	
Extension of Time Request			Other Enclosure(s) (please					
		而	identify below).			· · ·		
Supple	emental	ment Request					113	
Informa	ation Disclo	sure Statement	Rema	CD, Number of CD(s)				···
	Certified Copy of Priority			rks				
Document(s) Response to Missing Parts/ Incomplete Application								
Response to Missing Parts under 37 CFR 1.52 or 1.53								
	1	***	TURE C	F APPLICANT, ATTORN			Τ	
Firm or		Michael L. Berman Reg. No. 51,464						
	ndividual name Volpe and Koenig, P.C.							
Signature Marina Company Compa								
Date	Febru	ary 7, 2006						
		CI	RTIFIC	ATE OF TRANSMISSION	/MAIL	ING		
I hereby certify sufficient posta VA 22313-1450	ge as first c	lass mail in an env	ing facsir elope add	nile transmitted to the USPTO or Iressed to: Mail Stop Amendment	deposit , Comm	ed with the nissioner for	United S Patents	States Postal Service with s, P.O. Box 1450, Alexandria,
Typed or printed name Michael L. Berman								
Signature Mbe		non	non			Date	February 7, 2006	

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Our File: I-2-0173.4US

February 7, 2006

Date:



UNITED STATES PATENT AND TRADEMARK OFFICE

In the **PATENT APPLICATION** of:

De et al.

Application No.: 10/080,140

Confirmation No.:

9170

Filed:

February 21, 2002

For: SINC

SINGLE USER DETECTION USER

EQUIPMENT

Group:

2661

Examiner:

Robert W. Wilson

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT INCLUDING RULE 1.704(d) STATEMENT

Mail Stop Amendment Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Further to Applicants' Duty of Disclosure pursuant to 37 C.F.R. §1.56, Applicants wish to bring to the Examiner's attention the material cited on the enclosed PTO-1449 form. Newly cited documents are indicated by an asterisk (*).

Pursuant to 37 C.F.R. §1.98(a)(2)(ii), copies of the newly cited U.S. publications and/or patent documents have not been included.

In the spirit of Rule 1.704(d), the undersigned certifies that each newly cited item of information contained in this Supplemental Information Disclosure Statement was cited in a communication in a counterpart U.S. application, and that this communication was not received by any individual designated in §1.56(c) more than

Applicant: De et al. Application No.: 10/080,140

thirty (30) days prior to the filing of the supplemental information disclosure statement.

It is respectfully requested that the Examiner consider these documents and return an initialed copy of the PTO-1449 form indicating his/her consideration of the cited materials.

Respectfully submitted,

De et al.

By Mberran
Michael L. Berman

Registration No. 51,464

(215) 568-6400

Volpe and Koenig, P.C. United Plaza, Suite 1600 30 South 17th Street Philadelphia, PA 19103

MLB/ks Enclosure

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE FEB 0 9 2006				ATTY. DOCKET NO. SERIAL NO. 1-2-0173.4US 10/080,140			
				APPLICANT De et al.			
INFORMATION DISCOURE STATEMENT BY APPRICANT (Use several sheets if necessary)			FILING DATE February 21, 2002	GROUP 2661			
· · · · · · · · · · · · · · · · · · ·				T DOCUMENTS	<u> </u>		
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF
	*	5,157,688	10/1992	Dell-Imagine	0.50	00002.00	74 THOMAS
		5,337,226	12/1994	Davis			
		5,377,225	12/1994	Davis			· · · · · ·
	*	5,477,225	12/1995	Young et al.			
	-	5,648,983	07/1997	Kostic et al.			<u> </u>
	*	6,064,689	05/2000	Vollmer et al.			
	*	2002/0126619	09/2002	De et al.			,
	*	2002/0126646	09/2002	De et al.			
	*	2002/0131383	09/2002	De et al.			
	*	2002/0136160	09/2002	De et al.			.,
	*	2002/0141366	10/2002	De et al.			
	*	2002/0141372	10/2002	De et al.			
	*	2002/0141373	10/2002	De et al.			
	*	2002/0154599	10/2002	De et al.			
	*	2002/0154619	10/2002	De et al.			
	*	2002/0159383	10/2002	De et al.			
	*	2002/0159428	10/2002	De et al.			
		OTHER DOCUMENTS	(Including Au	thor, Title, Date, Pertinent Page	es, Etc.)		
	Ramjee Prasad, Werner Mohr and Walter Konhauser editors, <i>Third Generation Mobile Communication Systems</i> , Artech House, Boston, 2000.						
		Anja Klein, Ghassan Kawas Kaleh and Paul Walter Baier, "Zero Forcing and Minimum Mean-Square Error Equalization for Multiuser Detection in Code-Division Multiple-Access Channels", <i>IEEE Trans. on Vehicular Technology</i> , Vol.45, No. 2, pp. 276-287, May 1996.					
		Naja Klein, "Data Detection Algorithms Specially Designed for the Downlink of CDMA Mobile Radio Systems", IEEE 47th Vehicular Technology Conference, pp. 203-207, May 1997.					

EXAMINER	DATE CONSIDERED

FORM PTO-1449	ATTY. DOCKET NO. I-2-0173.4US	SERIAL NO. 10/080,140				
PATERN AND TRADEMARK OFFICE	APPLICANT De et al.					
FEB 0 9 20 FORMATION DISCLOSURE STATEMENT BY APPLICANT Use several sheets if necessary)	FILING DATE February 21, 2002	GROUP 2661				
OTHER DOCUMENTS (Including Au	uthor, Title, Date, Pertinent Pages	s, Etc.)				
H.R. Karimi and N.W. Anderson, "A Novel and Efficient Solution to Block-Based Joint-Detection using Approximate Cholesky Factorization", <i>Personal, Indoor and Mobile Communications PIMRC' 98</i> , Conference of Proceedings, Vol. 3, pp. 1340-1345, Sept. 1998, Boston, MA.						
	ETSI STC SMG2 Layer 1 Expert Group, "Low Cost MMSE-BLE-SD Algorithm for UTRA TDD Mode Downline", Tdoc SMG2 UMTS L1, Helsinki, Finland, Sept. 1998.					
Partnership Pro	3G TS 25.102 V3.4.0, 2000-10, "UTRA (TDD) Radio Transmission and Reception", 3rd Generation Partnership Project, Technical Specification Group RAN WG4, Annex B., pp. 37.					
a time domain approach", IEEE Trans. Inf.	Lang Tong; Guanghan xu; Kailath T: "Blind identification and equalization based on second -order statistics: a time domain approach", IEEE Trans. Inf. Theory (USA), IEEE Transactions on Information Theory, March 1994, USA, ISSN 0018-9448, VOL-40, NR 2, pages 340-349					
VTC 1999-Fall. IEEE VTS 50th. Vehic	Benvenuto N. et al. "Joint Detection With Low Computational Complexity For Hybrid TD-CDMA Systems" VTC 1999-Fall. IEEE VTS 50th. Vehicular Technology Conference. Gateway to the 21st Century Communications Village. Amsterdam, Sept. 19-22, 1999, IEEE Vehicular Technology Conference, NY					
Vandaele P. et al. "Recursive Total Least So Proceedings: Vision, Image and Signal Proceedings: Vision, Image and Vision, Imag	Vandaele P. et al. "Recursive Total Least Squares Algorithm for Single-User Blind Channel Equalisation: IEE Proceedings: Vision, Image and Signal Processing, Institution of Electrical Engineers, FB, Vol 147, No. 3, 23 June 2000					
Yang et al., "Fast Joint Detection with Cyc International Conference on Acoustics,	clic Reduction Exploiting Displace Speech and Signal Processing, Is	ement Structures", 2000 IEEE stambul, Turkey, June 2000				
Proakis et al., "Digital Signal Processing", Ma	acmillan Publishing Company, Ne 3.1, p. 890, para. 12.3.2	ew York, NY, 1992, p. 835, para.				
Vollmer et al., "Joint-Detection Using Fast F International Annual Conference of ICT, 199	Fourier Transforms in TD-CDMA 9, pp. 1-7, p. 1, para. 1, p. 2, para	Based Mobile Radio Systems", a. II, p. 3, para. III, p. 4, para. IV.				
Pigeonnat, "Alternative Solutions for Joint D Signal Processing Workshop on Signal Pro 32	Detection in TD/CDMA Multiple Acocessing Advances in Wireless Co 29-332, p. 329, para. 2.	cess Scheme for UMTS", IEEE ommunications, May 1999, pp.				

EXAMINER	DATE CONSIDERED